

Field Service Procedure

Secure Options Guidelines
Anesthesia



Revision -
12/19/03
SP00300

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SECURE OPTIONS GUIDELINES

- 1 PRODUCT USE:**
 - Fabius GS - S.W. 2.N
 - Fabius Tiro - S.W. 2.N
- 2 PURPOSE:**

The purpose of this document is to provide an overview of Secure Options as well as provide a general guideline of when the Secure Options process may need to be utilized.
- 3 OVERVIEW:**

Secure Options provides a means to enable or disable current and/or future ventilator options on a host unit. Secure Options screens are located in a sub-menu of the main Service Menu on host Fabius GS and Fabius Tiro units with software versions 2.N.

Path: Main Service Screen/Configure/Secure Options
- 4 GENERAL PROCESS:**

In order to enable a ventilator option, key information is needed to obtain "Release Codes". Release Codes are obtained from Technical Support. Requests for Release Codes shall be sent to Technical Support at: Phone 1-800-4-Dräger, Phone: 215-721-5402, or e-mail at techsupport@draegermed.com.

The information needed is:

 - Machine Serial Number
 - Machine Type (Fabius GS or Fabius Tiro)
 - (Option) Description and Part Number
 - Device ID Number

Refer to for locations of necessary information.

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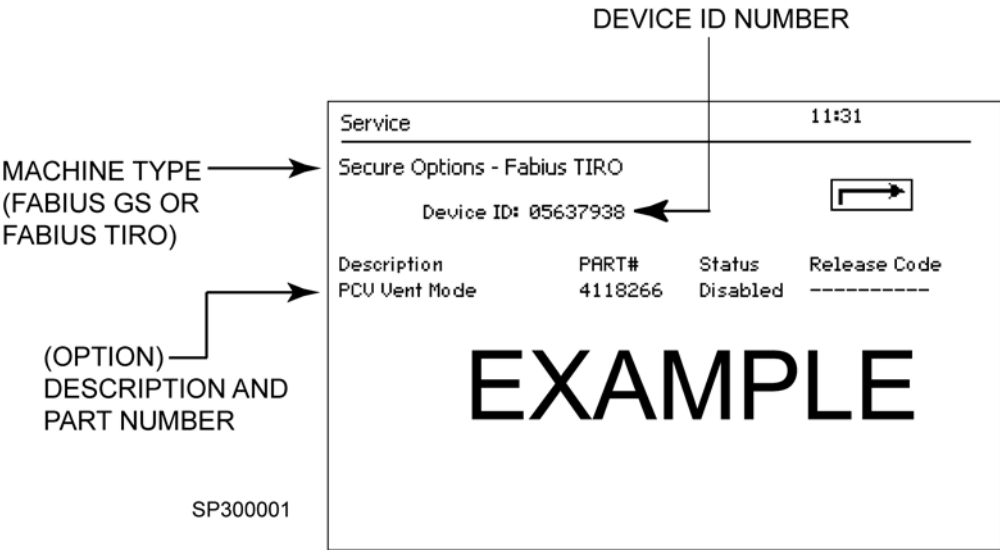


Fig. 1 Example - Service Screen with Identified Necessary Information

Once the Release Code(s) are obtained from Technical Support the TSR shall enter the Release Code(s) into the host unit to enable the option. This is also performed through the Main Service Screen:

Path: Main Service Screen/Configure/Secure Options/Vent Mode

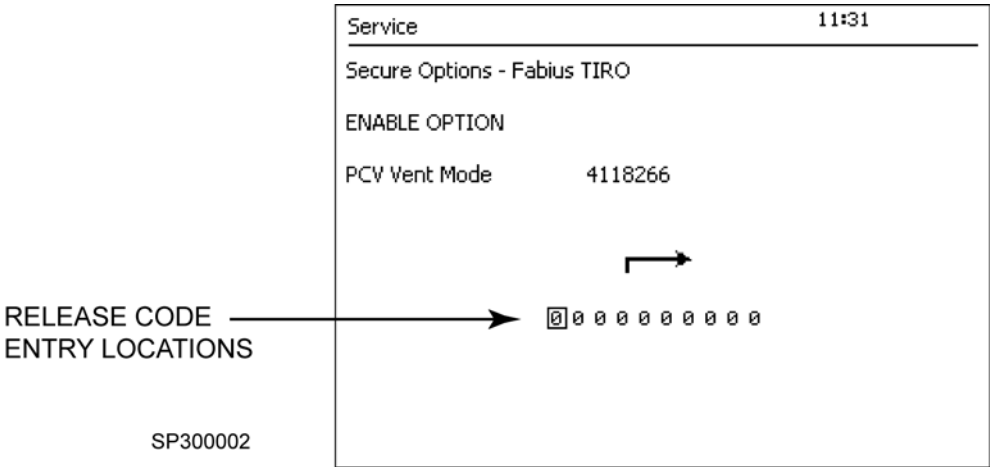


Fig. 2 Release Code Entry Location

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5 SOFTWARE UPDATES

5.1 Fabius GS & Fabius Tiro - Updates from Software Version 2.N to 2.N

Fabius GS & Tiro - Software updates from 2.N to 2.N do not affect ventilator options that were previously enabled on host Fabius GS or Tiro units, because the necessary information that allows the ventilator option(s) to be enabled is retained in NVRAM. Therefore, restoring ventilator options after a software update from 2.N to 2.N shall not be necessary. However, if a ventilator option is lost after a software update from 2.N to 2.N this could indicate a problem with the Control PCB.

5.2 Fabius GS Only - Updates from Software Version 1.N to 2.N

Pressure Control is a standard on Fabius GS units with software 1.N. However, performing a software update from 1.N to 2.N will disable Pressure Control. In this case, Pressure Control shall be restored. Therefore the Secure Options - General Process shall be carried out after a software update from 1.N to 2.N to restore Pressure Control.



NOTE:

The applicable software upgrade procedure will include Secure Options - General Process to guide the TSR to restore Pressure Control

6 CONTROL PCB REPLACEMENT

Fabius GS & Tiro - Following a Control PCB replacement and the subsequent software update, the Secure Options - General Process is necessary to restore any previously configured ventilator options. In this case, the applicable Replacement Procedure Section of the Service Manual reflects the Secure Options - General Process to guide the TSR to restore the appropriate ventilator option(s).

7 MODEL TYPE

The Fabius GS and Fabius Tiro utilize the same Control PCB. The product distinction (Fabius GS or Fabius Tiro) is set at the Manufacturing level prior to shipment via a sub-menu of the main Service Menu screen called "Model Type".



NOTE:

Changing the Model Type will disable any previously configured ventilator options from the factory. Therefore, if the Model Type is inadvertently changed the Secure Options - General Process will need to be performed to restore any previously configured ventilator options.

8 VENTILATOR OPTION UPGRADE

If a ventilator option is purchased to upgrade a field unit, a TSR shall be dispatched with the Release Code(s) to install the upgrade kit. At the customer site the TSR shall follow the applicable procedure(s) to install the kit and enable the option and perform the necessary testing.

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